FW1179 User's Manual

(Product Guide)

Version 4.14(Rev.E)

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FlexWATCH®
(주)세연테크 Seyeon Tech Co., Ltd.

Class A Digital Device (industrial & commercial environment)

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to CE and FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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About This Document

This document is prepared for users of FW1179 supplied by Seyeon Tech Co., Ltd. It is assumed that the users are familiar with Microsoft Windows operating systems and Web browsers such as Internet Explorer. It is also assumed that the users are well aware of how to install and use the network equipment such as LAN, Hub, router, and having basic knowledge of network terminologies. If you have any questions regarding network installations, please contact your network equipment vendor or network administrator or Internet service providers.

For updated contents, detailed features and other applications from Seyeon Tech, please refer to the user's manual in CD-ROM provided with the product you purchased, or visit Seyeon Tech's Internet homepage at http://www.flexwatch.com/.

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1. Product Overview

1.1. FW1179

FlexWATCH® 1179 is a stand-alone device transmitting vdeo from built-in megapixel camera over IP network. There is one type of FW1179 model: MV and FS.

It can transmit up to 30fps@1.3M(MV)/2M(FS) over the existing network. You can monitor video of FW1179 through web browser(ie. MS Internet Explorer), if FW1179 is connected to network. FW1179 supports video compression both MJPEG and H.264 simultaneously so that user can choose appropriate video compression for the purpose. For both Motion-JPEG and H.264, FW1179 provides 6 levels of video quality. FW1179 also supports both ONVIF and PSIA.

Picture 1 : FW1179

1.2. Key Features

- Standalone device with a built-in web server
- 100M Auto-Sensing Ethernet
- Configuring and controlling through Web browser
- Max 30/25 fps transmission rate at maximum resolution
- Effective Bandwidth & Bit-rate Control (VBR/CBR) by H.264
- Supports Dual Streaming in MJPEG and H.264
- Support Dynamic IP network by IPCCTVDNS Server
- Support Transparent Mode
- Support SNMP function
- Encryption function by user authentication
- Image transmission function via FTP and Email
- Support both ONVIF/PSIA

1.3. Technical Specification

	FW1179-MV	FW1179-FS
Hardware	32bit Embedded CPU NAND Flash 128Mbytes / DDR2: 128Mbytes Linux version 2.6.xx operating system Battery backed up real-time clock	
Image sensor	1/3" progressive scan MOS Active pixels 1280H x 1024V, 1.31M Effective pixels 1376H x 1070V, 1,47M Pixel size: 3.75 (H) μm × 3.75 (V) μm Color filter Bayer arrangement of primary colors: R, G, B Bit number of internal ADC: 12 bits Parallel output: 54 MHz, 12 bits Output frame rate per second: 30fps Full scan mode: 1.3 mega pixel output	1/2.8" progressive scan CMOS Active pixels 2080H x 1553V, 3.23M Effective pixels 2096H x 1561V, 3.27M Pixel size : 2.5 (H) μm × 2.5 (V) μm Color filter Bayer arrangement of primary colors: R, G, B Bit number of internal ADC: 10/12 bits Parallel output: 37.125 MHz, 10/12 bits Maximum frame rate in all-pixel scan mode: 60 fps
Lens	Auto IRIS & Vari-focal for megapixel 3.6 - 16.0 mm F1.2	Auto IRIS & Vari-focal for 2Megapixel 2.8 - 10.0 mm F1.2
IR Illuminator	50pcs 850nm Infrared LEDs 30°IR Range, maximum 20m IR distance	
Minimum illumination	Color: 0.1 Lux (F1.0) IR: 0 Lux	Color: 2 Lux(F1.2) IR: 0 Lux
Video related special functions	Day & Night (Auto/B&W/Off) Auto White Balance Noise Filter (Off/On) Brightness/Contrast/Sharpness/AGC Gain Control Lens Type (DC/Manual) Shutter (Manual/Auto) Vertical/Horizontal Flip Frequency Control (50/60)	
Video compression	MJPEG H.264	
Video standards	ONVIF PSIA	
Resolution	1280x1024, 704x480, 352x240, 176x112	1920x1080, 1280x720 640x352, 320x176, 160x96
Frame rate (each channel)	Up to 30 fps @ 1024p (Other Stream at QCIF)	Up to 30 fps @ 1080p (Other Stream at QCIF)
Video Streaming	MJPEG and H.264 Dual Streaming (Simultaneously) Controllable frame rate and bandwidth	
Image setting	Compression levels: 6 (MJPEG, H.264) Color: color, black & white	
LAN interface	100Base-T ethernet auto sensing	

Security features	Multi user level protection for camera access
Advanced Service	Up to 5.6M memory for Pre/Post alarm buffer E-Mail, FTP, IP notification, Alarm Notification to e-mail CGI Call by event or schedule
Built-in Motion detections	Accuracy: 12x12=144 blocks Motion Sensitivity : -100 ~ 100 : 100 is hypersensitive
Management	Configurable by serial, web or telnet Remote system update via telnet, FTP OR web browser
Developer support	Provides HTTP CGI API ActiveX control development kit
PWR Supply	SMPS Input: 100~240VAC, AC 50/60Hz, 1.2A Output : DC 12 Volt, 3A
PWR Consumption	DC 12Volt Max 900mA at night
Operating Environment	Temperature : 32°~ 122℉ (0°~ 50℃) Humidity : 20 ~ 80% RH(non-condensing)
Miscellaneous	Work with Smart NVR(CMS software) Dynamic IP support through IPCCTVDNS Server
Simultaneous users	Live-cast for up to 16 clients
Installation, management and maintenance	Installation CD and web-based configuration Firmware upgrades over HTTP, telnet & FTP, firmware available at homepage
Video access from Web browser	Video access from Web browser
Minimum Web browsing requirements	Pentium 4, 2 GHz, 2GB(RAM) or higher Video Card: 256MB RAM, 1024x768 resolution or higher 100Mbps Network Adaptor or faster Windows XP Pro or later Internet Explorer 6.x or later
System integration support	Powerful API for software integration available at http://www.flexwatch.com, including Simple Viewer API, FlexWATCH Control SDK, event trigger data in video stream, embedded scripting and access to serial port peripherals over HTTP/TCP User can be installed user program daemon for event notification or sending image Embedded operating system: Linux 2.6
Supported protocols	HTTP, RTP/RTSP, TCP/IP, FTP, Telnet, RARP, PPPoE, SNMP, PAP, CHAP, DHCP, NTP, SMTP client
Approvals	KCC FCC : Class A CE : Class A RoHS, IP66
Dimensions (HxWxD) and weight (1lbs = 454g)	92.8Ø x 235.8(L) x 125.8(H) (in mm) About 1.1kg without power supply

** All specifications are subject to change without prior notice.*

Table 1 : FW1179 Data Sheet

1.4. FW1179 Packing List

FW1179	1ea	
Power Supply Unit (Power Cable & SMPS DC12V 3A Adapter)	1ea	
CD (User's Manual, IP Installer and etc)	1ea	

Table 2 : FW1179 Packing List

Note: Please check all the listed items are included in your package. For any missing items, please contact your local distributor.

2. Hardware Description

2.1. Main Body View

Picture 2 : Front View

	Name	Description
A	IR LED	50pcs 850nm Infrared LEDs.
B	Lens	Lens for board mount
C	Sunshield	Top covering Sunshield

Table 3 : FW1179 Main Body View

2.1. Full View

Picture 3 : FW1179 Full View

	Name	Description
A	Main body	Mainbody
B	Mounting Bracket	Mounting bracket
C	LAN	LAN Connector.
D	Power Conn.	Power Connector.

Table 4 : FW1179 Full View

3. FW1179 Installation and Basic Setup

3.1. Before Installation

- Read carefully User's Manual.
- Check User's Network (IP Address, Network Mask and default gateway)
- Secure IP address for FW1179.

3.2. Factory Default Settings

The following table shows the factory default condition. Please refer to this when you need to change the values on admin menu.

	Factory Default
Admin ID	root
Admin password	root
IP address	10.20.30.40
Network mask	255.255.255.0
Gateway	10.20.30.1
Wireless LAN (Option)	Disabled

Table 5 : Factory Default

Note: Factory default Admin ID and Password are all lower case letters. You can change the password with Capital letters.

3.3. Installing FW1179

Following steps are the physical installation process for FW1179.

1. Fix the FW1179 in place
2. Connect the FW1179 to the Internet cable through the LAN port.
3. Connect the power supply of FW1179.

After that, you need to follow the steps below.

- Network Configuration: Refer to "IP Installer User's Manual"
- Camera Configuration: Refer to "FlexWATCH Admin Menu User's Manual"
- Service Configuration: Refer to "FlexWATCH Admin Menu User's Manual"